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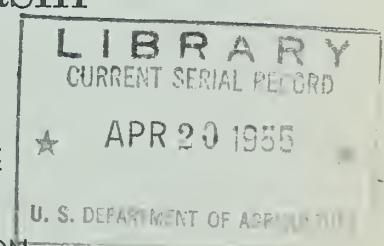
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Federal-State Cooperative
Snow Surveys and Water Supply Forecasts
for
Colorado River Drainage Basin

SOIL CONSERVATION SERVICE
UNITED STATES DEPARTMENT OF AGRICULTURE
AND
COLORADO AGRICULTURAL EXPERIMENT STATION



Data included in this report were obtained by the agencies named above in cooperation with the U. S. Forest Service, National Park Service, State Engineers of Colorado, Wyoming and New Mexico and other Federal, State and local organizations.

— AS OF —
APRIL 1, 1955

UNITED STATES DEPARTMENT OF AGRICULTURE
SOIL CONSERVATION SERVICE

TO RECIPIENTS OF COOPERATIVE SNOW SURVEY
AND WATER SUPPLY FORECAST REPORTS:

Forecasts by U. S. Weather Bureau of total annual streamflow October-September, inclusive, at more than 300 gaging stations are issued monthly January through May in the publication WATER SUPPLY FORECASTS FOR THE WESTERN UNITED STATES.

Weather Bureau forecasts of runoff presented in that bulletin are computed from procedures based on mathematical analysis of the relation between precipitation and runoff.

The Weather Bureau bulletins may be secured by writing to:

Hydrologist in Charge
River Forecast Center
U. S. Weather Bureau
712 Federal Office Building
Kansas City 6, Missouri

For current information on local river and flood conditions, reference should be made to the appropriate River District Office listed below:

Meteorologist in Charge.....San Juan River and tributaries
Weather Bureau Airport Station
Albuquerque, N. Mex.

Meteorologist in Charge.....Colorado River and tributaries
Weather Bureau Airport Station from but not including the
3000 Sky Harbor Blvd. mouth of the San Juan River
Phoenix, Ariz. to the Arizona-Mexico border.

Meteorologist in Charge.....Colorado River and tributaries
Weather Bureau Airpcrt Station above but not including, the
Box 517 mouth of the San Juan
Grand Junction, Colo.

Colorado River

FEDERAL-STATE COOPERATIVE
SNOW SURVEYS AND WATER SUPPLY FORECASTS
for
COLORADO RIVER BASIN

Issued

April 9, 1955

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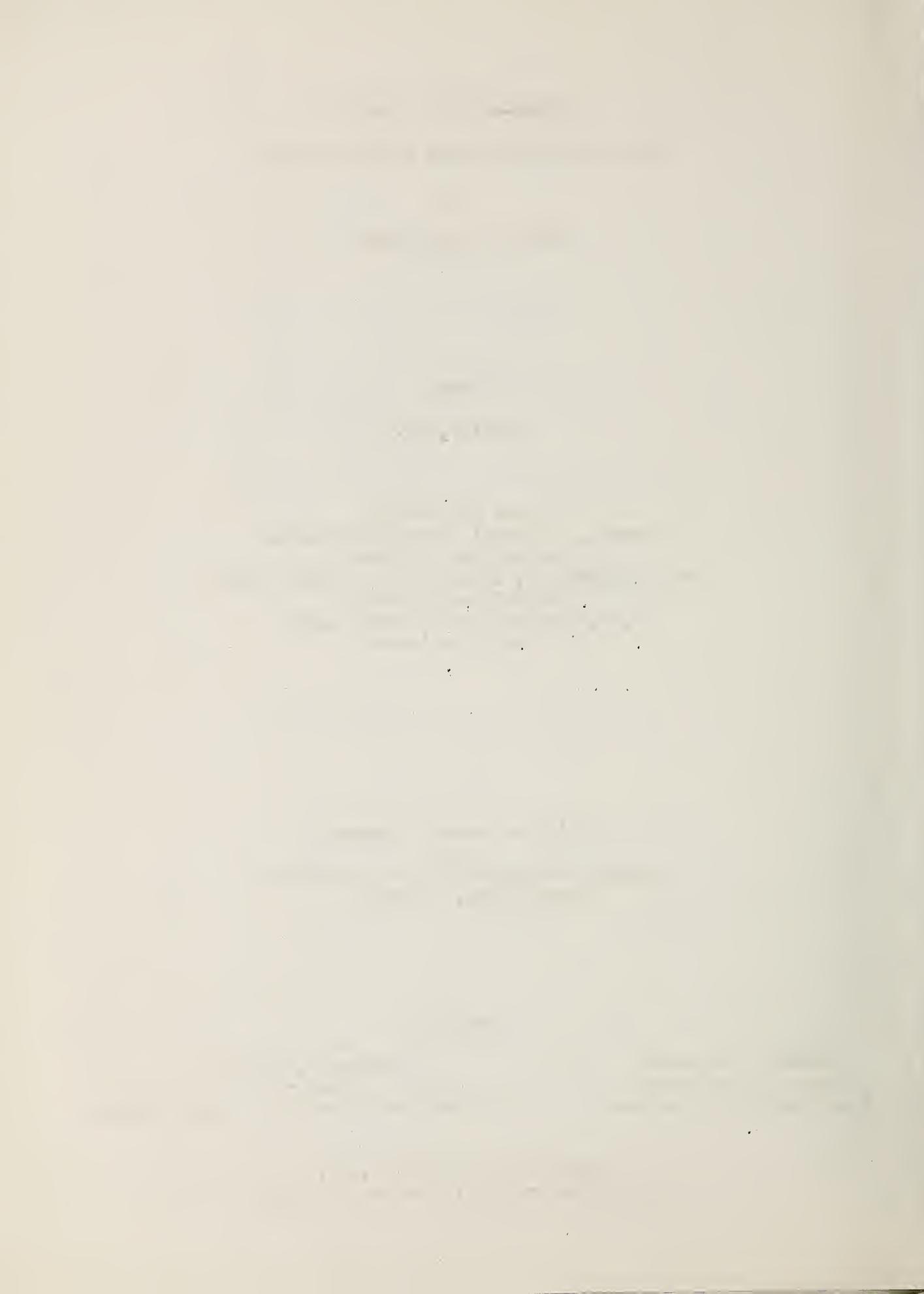
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Fort Collins, Colorado

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General Series Paper No. 607
Colorado Agricultural Experiment Station



WATER SUPPLY OUTLOOK
COLORADO RIVER DRAINAGE
April 1, 1955

Streamflow in western Colorado will be below normal in 1955 but more than the snowmelt season in 1954. Irrigated areas along the principal streams may expect reasonably adequate water supplies. Snow cover declined slightly in relation to normal during March and is now 60 to 90 percent of normal. However, this is a substantial improvement over April 1, 1954. In Wyoming, seasonal snowfall on the Green River is now 75 percent of normal with some improvement during March. Soil moisture in irrigated areas and in the mountains is fair to good. Reservoir storage is down slightly from average and a year ago.

In Arizona the water supply outlook is described as poor. There is practically no snow in the mountains and peak runoff from snowmelt is assumed to have occurred. Early spring runoff will be approximately one-quarter of average. Reservoir storage is down slightly from average and a year ago.

COLORADO RIVER AND TRIBUTARIES
IN COLORADO

The flow of the Colorado River and its tributaries in western Colorado in 1955 will be above that for 1954 but less than average. There was a decline in snow cover in respect to normal during March of about 10 percent. Seasonal snow accumulation ranges from about 65 percent of normal on the San Juan watershed in southwestern Colorado to 95 percent on the Yampa and White River watersheds in the northwest. Precipitation as rain or snow has been general at valley and low mountain elevations during the winter. Surface soil moisture is much better than for this date a year ago in irrigated districts.

Summer flow will be below the past ten-year average. Present forecasts for the April-September 1955 period are from about 65 percent of normal in southwestern Colorado to near normal on the Yampa River and its tributaries, the Elk and Little Snake rivers. Forecasts of flow for the upper Colorado River from Grand Lake to Grand Junction are from three-quarters to four-fifths of normal and for the Gunnison at Grand Junction about 70 percent of normal. On the Dolores River supplying water for the Dolores and Montezuma valleys the water supply outlook is fair to poor. Soil moisture conditions are good. The mountain soils are wet. Even if snow cover is only 60 percent of normal, summer flow of the Dolores at Dolores should be about three-quarters of normal and much above that for 1954.

Granby and Green Mountain reservoirs contain less water than average and 200,000 acre-feet less than or one-half that for April 1, 1954. Taylor Park reservoir for the Uncompahgre district stores 54,000 acre-feet as compared to 75,000 for the past ten-year average. Vallecito Reservoir on

the Pine River has 65,000 acre-feet in storage which is well above the average and a year ago. Water supply for the Pine River is good for 1955.

In summary of the water supply outlook for western Colorado there will be more water available in 1955 than in 1954 but less than for the past ten-year average. Other factors affecting water supply and demand such as mountain and valley soil moisture, streamflow, and reservoir storage is somewhat more favorable than at this date a year ago.

GREEN RIVER TRIBUTARIES IN WYOMING AND UTAH

Snow cover on the Green River headwaters in Wyoming is below average for April 1. The contribution to the Colorado this year will not be more than three-quarters of normal. In Utah, seasonal snowfall on the headwaters of the Duchense River is slightly above average but less than average on the Price River and other Green River tributaries in Utah. Snowcover on the Virgin River flowing directly into Lake Mead is about 80 percent of normal.

Storage in Lake Mead is 11,550,000 acre-feet, down 4 million acre-feet, during the past year. This is the lowest point since the storage passed this point on its original filling. The low storage is a result of extremely low inflow last year. Inflow to Lake Mead for the April-September 1955 period is forecast at about 70 percent of normal.

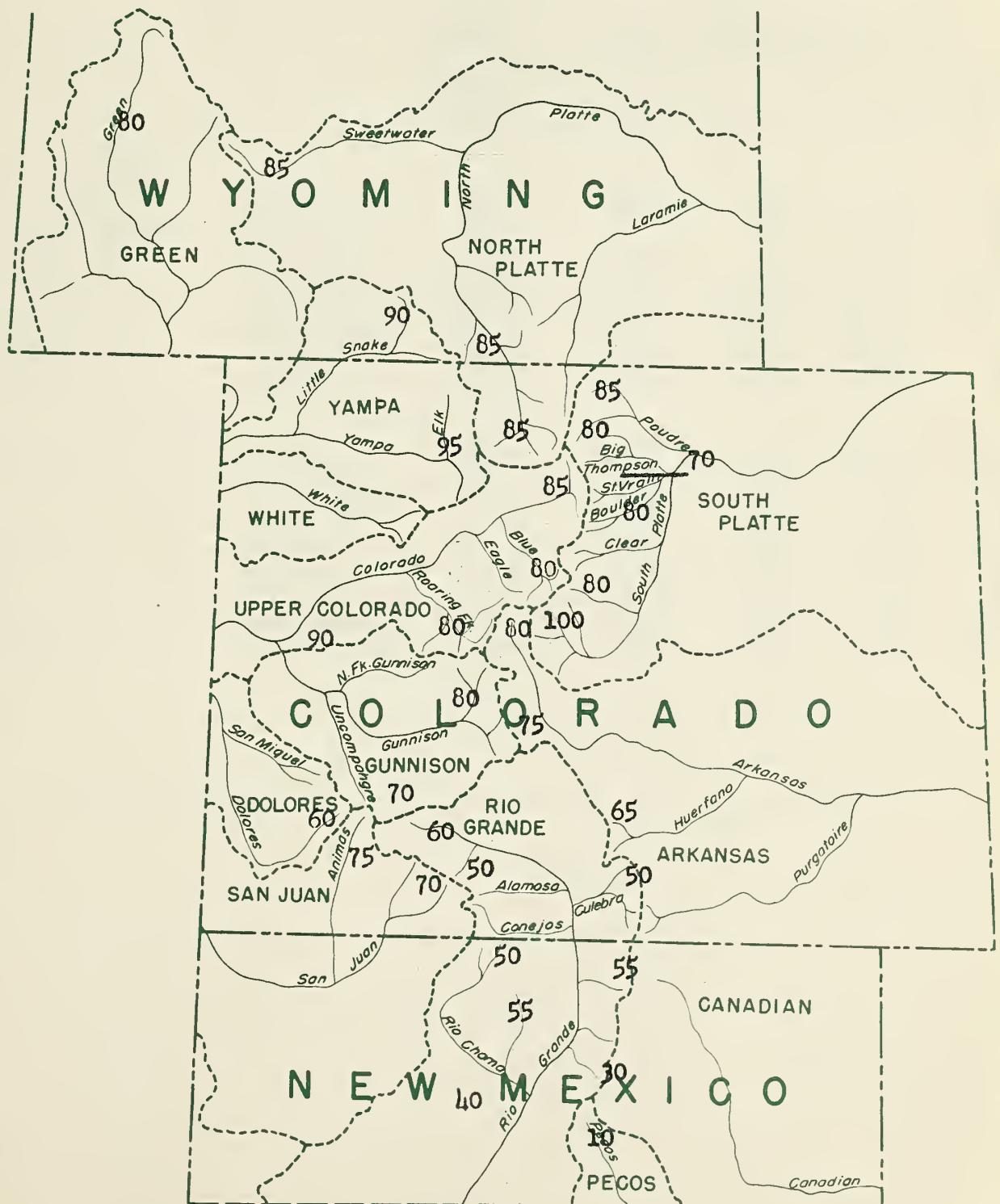
COLORADO RIVER TRIBUTARIES IN ARIZONA

Streamflow on the Salt River and its tributaries during the snowmelt season is far below normal and may be the lowest of record for this time of year. All of the snow has melted. During the winter months snow cover was near normal. There was little rainfall during the early fall and winter months. Practically all of the snowmelt was taken up by the dry soil. Forecasts for the Salt River for March through May is 45,000 acre-feet, for the Tonto River 3,300 acre-feet, and the Verde River 50,000 acre-feet. These flows are less than one-quarter of normal. Peak runoff occurred in mid-March. Soils in irrigated areas are dry.

Water supply outlook for the Gila continues to be extremely poor. Soils in both mountain and valley areas are dry.

WATER CONTENT OF SNOW ON THE WATERSHEDS OF
PLATTE, ARKANSAS, UPPER COLORADO AND RIO GRANDE BASINS
BASED ON SNOW SURVEYS MADE APPROXIMATELY FIRST DAY OF MONTH

In Percent of Normal
April 1, 1955



SNOW SURVEYS AND IRRIGATION WATER SUPPLY FORECASTS
COLORADO RIVER BASIN

STATUS OF RESERVOIR STORAGE, April 1, 1955

BASIN AND STREAM	RESERVOIR	USABLE CAPACITY (THOUS.A. Ft.)	THOUSANDS ACRES FEET IN STORAGE			
			About April 1, 1955			10-yr.Avg. 1943-1952
			1955	1954	1953	
COLORADO DRAINAGE						
Taylor River	Taylor Park	106.2	54.1	53.1	64.1	69.6
Los Pinos River	Vallecito	126.3	65.0	34.2	56.3	38.8
Groundhog Creek	Groundhog	21.7	4.0	3.2	11.5	8.0
Blue River	Green Mountain	146.9	42.6	54.8	86.9	55.8
Colorado River	Lake Mead	27,935.0	11,558.0	15,792.0	17,764.0	17,927.7
Colorado River	Lake Havasu	688.0	630.0	623.8	618.5	631.3
Colorado River	Lake Mohave	1810.0	1755.0	1761.0	1639.0	--*
Colorado River	Granby	467.5	156.2	372.9	424.0	--**
SALT AND GILA DRAINAGE						
Salt River	Roosevelt	1382.0	401.1	693.5	1050.6	453.0
" "	Horse Mesa	245.0	242.7	244.8	234.9	202.8
" "	Mormon Flat	58.0	55.6	57.5	51.5	42.3
" "	Saguaro	70.0	68.1	58.6	51.6	43.5
Verde River	Bartlett	180.0	57.4	84.7	48.7	84.0
	Horseshoe	1430.0	1.2	76.5	0.6	30.2*
Aqua Fria River	Carl Pleasant	173.0	22.9	45.7	77.4	13.9
Gila River	San Carlos	1200.0	18.8	40.0	14.5	149.1

*Some for shorter periods

1880-1881. 1881-1882. 1882-1883.

1883-1884. 1884-1885. 1885-1886.

1886-1887. 1887-1888. 1888-1889.

1889-1890. 1890-1891. 1891-1892.

1892-1893. 1893-1894. 1894-1895.

1895-1896. 1896-1897. 1897-1898.

1898-1899. 1899-1900. 1900-1901.

1901-1902. 1902-1903. 1903-1904.

1904-1905. 1905-1906. 1906-1907.

1907-1908. 1908-1909. 1909-1910.

1910-1911. 1911-1912. 1912-1913.

1913-1914. 1914-1915. 1915-1916.

1916-1917. 1917-1918. 1918-1919.

1919-1920. 1920-1921. 1921-1922.

1922-1923. 1923-1924. 1924-1925.

1925-1926. 1926-1927. 1927-1928.

1928-1929. 1929-1930. 1930-1931.

1931-1932. 1932-1933. 1933-1934.

1934-1935. 1935-1936. 1936-1937.

1937-1938. 1938-1939. 1939-1940.

1940-1941. 1941-1942. 1942-1943.

1943-1944. 1944-1945. 1945-1946.

1946-1947. 1947-1948. 1948-1949.

1949-1950. 1950-1951. 1951-1952.

1952-1953. 1953-1954. 1954-1955.

1955-1956. 1956-1957. 1957-1958.

1958-1959. 1959-1960. 1960-1961.

1961-1962. 1962-1963. 1963-1964.

1964-1965. 1965-1966. 1966-1967.

1967-1968. 1968-1969. 1969-1970.

1970-1971. 1971-1972. 1972-1973.

1973-1974. 1974-1975. 1975-1976.

1976-1977. 1977-1978. 1978-1979.

1979-1980. 1980-1981. 1981-1982.

1982-1983. 1983-1984. 1984-1985.

1985-1986. 1986-1987. 1987-1988.

1988-1989. 1989-1990. 1990-1991.

1991-1992. 1992-1993. 1993-1994.

1994-1995. 1995-1996. 1996-1997.

COLORADO RIVER DRAINAGE BASIN SUMMARY OF APRIL 1 SNOW SURVEYS
AND COMPARISON OF DATA WITH THAT OF PREVIOUS YEARS

WATERSHEDS	No. of Courses Averaged	Years of Record	April 1, 1955		
			April 1, 1955 Water Content as percent of		
			1954	1953	Average
COLORADO RIVER					
Colorado River	28	4-19	110	102	83
Roaring Fork	3	18-19	109	--	76
Plateau Creek	2	15-18	102	113	91
Green River	6	16-19	70	90	85
Yampa River	8	4-19	112	100	86
White River	2	18-19	113	127	93
Gunnison River	13	4-19	105	112	81
Dolores River	4	6-19	98	97	58
San Juan River	7	4-19	79	107	60
Animas River	8	4-19	99	111	75
Gila River	9	7-17	--	--	--
Salt River	7	5-16	17	23	20
Verde River	10	4-9	--	--	--
Little Colo. River	9	4-17	--	--	--
Williams River	3	9	--	--	--
Lower Colo. River	4	8	49	225	51

*Above Glenwood Springs

PRECIPITATION DATA

WATERSHED	STATE	Precipitation	Departure	Precipitation	Departure
		October 1 to March 31	from Normal	March	from Normal
		Inches	Inches	Inches	Inches
Colorado	Colorado				
Green	Wyoming	3.43	-1.48	0.54	-0.29
San Juan	New Mexico				
Colorado	Arizona				
Gila	Arizona				

*Average selected high altitude stations

COLORADO RIVER DRAINAGE BASIN
STREAM FLOW FORECASTS, APRIL 1, 1955

BASIN AND STREAM	April-Sept., Incl., Streamflow Acre Feet				10 year Avg. 1943-1952
	Forecast 1955	% of 10 year Avg.		Measured Runoff	
		1953	1952		
GREEN					
Green at Linwood, Utah	850,000	57	957,000	1,659,000	1,490,000
Little Snake at Lily	325,000	84	232,000	689,000	387,000
Elk at Clark	210,000	94	164,000	258,000	224,000
Yampa at Steamboat Springs	260,000	90	249,000	402,000	290,000
White at Meeker	340,000	99	313,000	487,000	344,000
COLORADO					
Colorado near Granby	200,000*	88	197,000*	313,000*	229,000*
Willow near Granby	40,000	91	32,000	71,000	44,000
Frazer at Granby	85,000**	80	102,000	153,000	106,000
Blue Above Green Mt. Res.	250,000	82	277,000	368,000	307,000
Colorado at Glenwood Springs	1,400,000*	87	1,413,000*	2,384,000*	1,611,000*
Roaring Fork at Glenwood Springs	725,000	86	678,000*	1,134,000*	842,000*
Plateau Creek at Collbran	52,000	87	41,000	81,000	60,000
Uncompahgre at Colona	90,000	58	114,000	194,000	156,000
Surface Creek near Cedaredge	13,000	72	11,000	25,000	18,000
Gunnison at Grand Junction	950,000	64	953,000	2,317,000	1,482,000
San Juan at Rosa, N.M.	350,000	56	370,000	1,142,000	629,000
Piedra at Piedra	125,000	65	111,000	337,000	193,000
Los Pinos near Bayfield	170,000*	74	122,000*	304,000*	229,000*
Florida near Durango	45,000	70	34,000	96,000	65,000
Animas at Durango	350,000	72	315,000	745,000	515,000
La Plata at Hesperus	20,000	69	19,000	51,000	29,000
Dolores at Dolores	210,000	70	176,000	477,000	302,000
Colorado near Grand Canyon- Ariz.	6,900,000	69	5,447,000	15,493,000	10,040,000

*Including diversions and storage

**Actual Flow

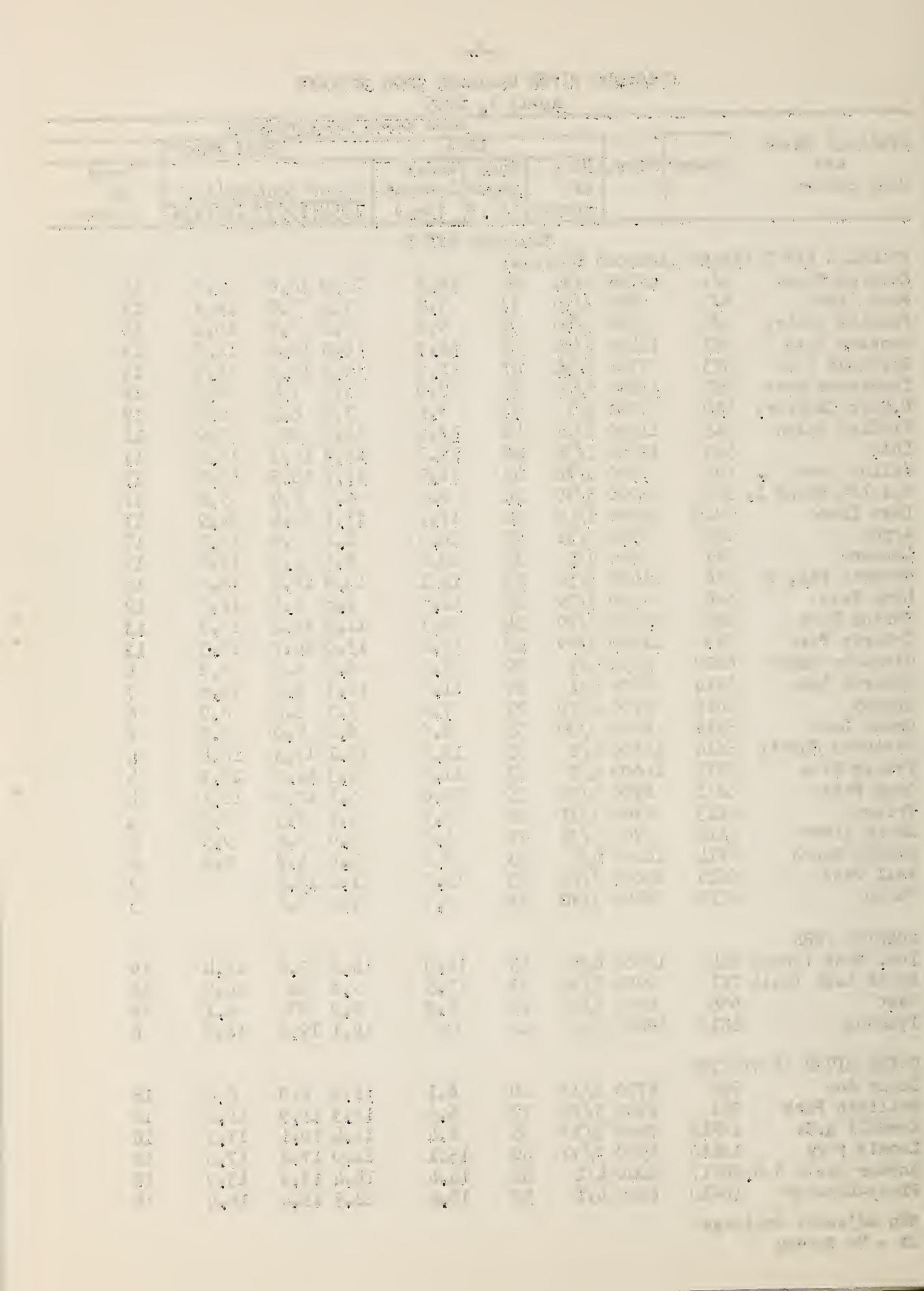
COLORADO RIVER DRAINAGE SNOW SURVEYS

April 1, 1955

Drainage Basin and Snow course	Number	Elev.	Date of Survey	Snow Cover Measurements				Years of Record				
				1955		Past Record						
				Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1954 1953 Average					
COLORADO RIVER												
COLORADO RIVER (Above Glenwood Springs)												
Cameron Pass*	5J1	10300	3/31	58	18.9	22.0 18.8	21.7	19				
Park View*	6J2	9200	3/30	33	7.8	7.1 5.8	10.3	19				
Phantom Valley	5J4	9300	3/30	35	9.2	9.1 8.2	10.4	19				
Hoosier Pass	6K1	11400	3/31	45	12.3	10.8 10.6	12.6	19				
Berthoud Pass	5K3	9700	3/31	47	12.6	10.9 13.3	15.9	19				
Tennessee Pass	6K2	10200	3/31	34	7.0	7.3 7.4	9.5	19				
N.Fork Camp.Gr.	5K4	9000	4/1	33	7.1	7.8 6.4	10.0	19				
Fiddler Gulch	6K5	11000	3/30	48	13.2	12.6 NS	15.9	18				
Lulu	5J7	10200	3/30	46	12.7	14.3 11.3	16.9	17				
Willow Creek P.	6J5	9500	3/30	43	11.2	11.7 10.5	13.2	17				
N.Inlet Grand L.	5J9	9000	3/30	34	8.5	6.7 8.4	9.6	17				
Lake Irene	5J10	10600	3/30	64	17.7	17.1 20.4	21.9	17				
Arrow	5K6	9900	3/31	35	10.3	8.1 7.9	10.2	17				
Lapland	5K7	9500	4/1	38	10.6	8.1 8.7	11.6	17				
Fremont Pass #2	6K8	11400	3/30	53	14.1	13.0 17.2	16.6	19				
Lynx Pass	6K6	9100	3/29	42	11.9	9.8 9.6	12.7	19				
Shrine Pass	6K9	10500	3/29	54	13.7	11.5 19.4	17.9	13				
Grizzly Peak	5K9	11250	3/29	49	13.2	13.0 14.7	18.3	13				
Glen-Mar Ranch	6K20	8850	4/1	29	5.2	6.5 5.4	9.2	8				
Monarch Lake	5J14	8500	4/1	29	11.4	10.7 6.3	13.6	7				
Granby	5J16	8700	4/20	27	7.0	5.7 6.8	8.0	6				
Grand Lake	5J19	8600	3/30	35	8.6	6.0 6.0	9.3	6				
Berthoud Summit	5K14	11300	4/2	55	15.5	15.1 17.3	18.4	4				
Frazer View	5K15	10600	4/2	37	11.0	8.3 11.6	12.9	4				
Gore Pass	6J11	8900	3/29	35	10.8	6.1 10.0	10.1	4				
Frisco	6K13	9300	3/31	29	6.3	4.2 8.3	9.0	4				
Snake River	5K16	9700	3/31	29	6.6	5.0 5.6	9.5	4				
Summit Ranch	6K14	10000	4/2	33	8.6	5.8 5.9	9.6	4				
Vail Pass	6K15	10000	3/29	53	15.2	11.0 15.5	13	3				
Pando	6K19	9500	3/30	32	9.7	9.0 9.6	13	3				
ROARING FORK												
Ind. Pass Tunnel	6K4	10700	4/2	45	12.0	14.9 15.6	18.4	19				
North Lost Trail	7K1	9200	3/30	39	12.5	9.6 NS	14.9	18				
Nast	6K6	8700	3/29	21	5.3	2.9 NS	6.1	18				
Ivanhoe	6K10	10400	NS	NS	NS	14.1 19.1	18.0	8				
GREEN RIVER IN WYOMING												
Dutch Joe	9G5	8700	3/30	40	8.1	11.9 8.0	8.6	16				
Mulligan Park	9G1	8900	3/31	27	6.6	12.3 11.9	11.1	19				
Kendall R.S.	10F15	7900	3/30	35	8.4	11.4 10.1	11.5	18				
Loomis Park	10F16	8500	3/30	50	15.1	22.0 17.8	17.5	19				
Snyder Basin R.S.	10F17	8040	4/1	45	14.4	18.4 13.3	13.9	18				
Piney-LaBarge	10G10	8820	4/1	59	16.4	22.9 15.4	18.4	18				

*On adjacent drainage

NS - No Survey



COLORADO RIVER SNOW SURVEYS
 April 1, 1955

Drainage Basin and Snow Course	Snow Course Measurements								Years of Record	
	Number	Elev.	Date of Survey	1955		Past Record				
				Snow Depth (In.)	Water Content (In.)	1954	1953	Average		

COLORADO RIVER

YAMPA RIVER

Dry Lake	6J1	8300	4/1	50	16.3	17.2	16.8	20.4	19
Columbine Lodge*	6J3	9300	3/29	63	22.3	15.0	23.7	23.2	19
Elk River	6J4	8700	4/2	51	17.0	15.8	12.8	17.5	19
Lynx Pass*	6J6	9100	3/29	42	11.9	9.8	9.6	12.7	19
Routt Line	6J8	9700	3/29	90	32.6	29.0	35.7	39.3	4
Rabbit Ears	6J9	9550	3/29	67	23.3	22.3	25.1	28.8	4
Yampa View	6J10	8500	3/29	44	14.1	10.2	13.3	15.2	4
Old Battle*	6H10	9800	3/28	72	25.3	25.9	26.0	32.4	19

WHITE RIVER

Burro Mountain	7K1	9000	4/2	45	16.0	16.7	13.5	19.0	18
Rio Blanco	7J1	8500	4/1	43	16.3	12.0	11.8	15.7	19

PLATEAU CREEK

Mesa Lakes	7K4	10000	4/2	47	17.6	16.7	15.0	17.9	18
Trickle Divide	7K5	10000	4/2	73	25.4	25.2	23.2	29.0	15

GUNNISON RIVER

Crested Butte	6L1	9000	4/1	41	12.0	9.8	11.2	15.1	19
Park Cone	6L2	9700	4/1	40	9.9	9.9	10.1	10.9	18
Alexander Lake	7K3	10000	4/1	62	21.0	20.3	16.6	23.9	18
Ironton Park	7M6	9800	3/31	35	9.0	5.6	9.0	13.6	18
Trickle Divide	7K5	10000	4/2	73	25.4	25.2	23.2	29.0	15
Park Reservoir	7K6	9500	4/2	67	24.0	23.2	19.3	26.6	15
Porphyry Creek	6L3	10800	4/1	42	12.5	10.1	17.0	17.0	15
Kannah Cr.	7K7	10700	4/2	58	22.8	22.0	15.2	24.7	8
Lake City	7M8	10300	4/1	23	6.4	NS	4.8	7.8	6
Spring Cr. Pass*	6M13	10900	3/30	23	5.5	7.6	5.2	10.6	6
Cochetopa Pass*	6L6	10000	4/1	79	2.9	3.3	4.0	4.9	6
McClure Pass	7K8	9500	3/30	46	14.9	9.0	10.3	16.3	5
Red Mt. Pass	7M15	11000	3/31	70	22.3	25.9	23.3	30.6	4

SAN JUAN RIVER

Wolf Creek Pass*	6M1	10000	3/30	57	20.0	24.2	18.3	30.4	19
Upper San Juan	6M3	10000	3/30	63	22.8	26.6	24.6	34.1	19
Granite Peaks	7M7	7950	3/31	0	0	0.5	0.0	6.0	14
La Plata	7M10	9700	4/1	29	10.1	10.9	5.7	14.1	5
Wolf Creek Summit	6M17	11000	3/30	58	17.7	25.0	17.9	29.0	4
Chama Divide*	6N2	7750	3/31	0	0.0	0.4	0.0	2.3	15
Chamita*	6N3	8500	3/31	15	4.8	8.3	4.4	9.1	13

*On adjacent drainage

NS - No survey

COLORADO RIVER SNOW SURVEYS
April 1, 1955

Drainage Basin and Snow Course	Snow Course Measurements								Years of Record	
	Number	Elev.	1955			Past Record				
			Date of Survey	Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1954	1953		
COLORADO RIVER										
ANIMAS RIVER										
Silverton Sub.S.	7M4	9400	4/1	17	5.0	4.0	3.1	5.1	19	
Ironton Park*	7M6	9800	3/31	35	9.0	5.6	9.0	13.6	18	
Cascade	7M5	8850	4/1	27	9.0	8.8	8.0	11.4	19	
Spud Mt.	7M11	10700	4/1	52	16.3	20.5	16.3	23.9	4	
Molas Lake	7M12	10500	4/1	34	10.3	6.7	6.7	13.4	4	
Howardville	7M13	9800	4/1	26	8.3	10.0	6.7	11.5	4	
Mineral Creek	7M14	10300	4/1	38	11.8	11.3	10.0	13.5	4	
Red Mt. Pass	7M15	11000	4/1	70	22.3	25.9	23.3	30.6	4	
DOLORES RIVER										
Rico	7M1	8700	3/31	16	5.0	3.7	0.0	8.1	19	
Telluride	7M2	8600	3/31	13	4.2	1.3	4.0	6.9	19	
Lizard Head	7M3	10300	4/1	40	7.4	11.7	10.0	16.9	18	
Trout Lake	7M9	9700	3/31	36	9.3	9.8	12.7	13.3	6	
GILA RIVER										
Frisco Divide	8S1	8000	4/1	0	0.0	NS	0.0	0.5	17	
State Line	9S8	8000	4/1	0	0.0	NS	0.0	0.4	17	
Taylor Creek	7S1	7850	4/1	0	0.0	NS	0.0	0.1	13	
Inman	7S2	7800	4/1	0	0.0	NS	0.0	0.1	9	
Nutrioso	9S4	8500	4/1	0	0.0	NS	NS	0.6	17	
Beaver Head	9S6	8000	4/1	0	0.0	NS	0.0	0.9	17	
Coronado Trail	9S7	8000	4/1	0	0.0	NS	NS	1.4	17	
Rose Canyon	10T2	7300	4/1	0	0.0	0.0	0.0	0.4	7	
Bear Wallow	10T1	8100	4/1	0	0.0	NS	0.0	1.5	7	
VERDE RIVER										
Iron Springs*	12R2	6200	4/1	0	0.0	0.0	0.0	0.0	9	
Camp Wood	12R1	5700	4/1	0	0.0	0.0	0.0	0.0	9	
Mingus Mountain	12R3	7100	4/1	0	0.0	0.0	0.0	0.0	8	
Norman Lake*	11R4	7350	4/1	0	0.0	3.9	0.0	6.3	8	
Fort Valley*	11P2	7350	4/1	0	0.0	2.1	0.0	1.7	8	
Chalendar*	12P1	7100	4/1	0	0.0	0.3	0.0	2.2	8	
Munds Park	11R1	6500	4/1	0	0.0	1.5	0.0	0.7	5	
Casner Park	11R2	6950	NS	NS	NS	3.3	0.0	1.7	5	
Mormon Mt.	11R3	7500	NS	NS	NS	5.9	0.0	5.7	5	
Happy Jack	11R5	7630	4/1	0	0.0	2.4	NS	4.6	4	

*On adjacent drainage

NS - No Survey

COLORADO RIVER SNOW SURVEYS
April 1, 1955

Drainage Basin and Snow Course	Number	Elev.	Date of Survey	Snow Course Measurements							
				1955		Past Record					
				Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1954	1953			
COLORADO RIVER											
WILLIAMS RIVER											
Iron Springs	12R2	6200	4/1	0	0.0	0.0	0.0	0.0			
Camp Wood*	12R1	5700	4/1	0	0.0	0.0	0.0	0.0			
Willow Ranch	13P1	5000	4/1	0	00.0	--	0.0	0.0			
LOWER COLORADO RIVER											
Bright Angel	12N1	8400	4/1	24	7.0	10.6	3.0	8.6			
Grand Canyon	11P1	7500	4/1	0	0.0	1.6	0.0	1.3			
Fort Valley	11P2	7350	4/1	0	0.0	2.1	0.0	1.7			
Chalender	12P1	7100	4/1	0	0.0	0.3	0.0	2.2			
SALT RIVER											
Forest Dale	10R6	7000	4/1	0	0.0	0.0	0.0	0.0			
McNary	9R2	7200	4/1	0	0.0	0.0	0.0	0.2			
Nutrioso	9S4	8500	4/1	0	0.0	--	--	0.6			
Coronado Trail	9S7	8000	4/1	0	0.0	--	--	1.4			
Milk Ranch	9R1	7000	4/1	0	0.0	0.0	0.0	0.0			
Workman Creek	10S1	5860	4/1	0	0.0	1.2	0.0	2.0			
Maverick Fork	9S2	9020	4/1	0	0.0	7.5	4.0	4.3			
Baldy	9S1	8125	4/1	0	0.0	5.1	1.7	4.9			
Fort Apache	9R5	9160	4/1	12	4.3	7.4	6.8	6.8			
Pacheta	9S5	7800	4/1	0	0.0	0.0	0.0	1.6			
LITTLE COLORADO RIVER											
Forest Dale*	10R6	6450	4/1	0	0.0	0.0	0.0	0.0			
McNary	9R2	7200	4/1	0	0.0	0.0	0.0	0.2			
Nutrioso*	9S4	8500	4/1	0	0.0	--	--	0.6			
Mormon Lake	11R4	7350	4/1	0	0.0	3.9	0.0	6.3			
Fort Valley	11P2	7350	4/1	0	0.0	2.1	0.0	1.7			
Mormon Mt.	11R3	7500	NS	NS	NS	5.9	0.0	5.7			
Happy Jack	11R5	7630	4/1	0	0.0	2.4	--	4.6			
Gentry	10R5	7600	4/1	0	0.0	0.6	0.0	0.3			
Heber	10R4	7600	4/1	0	0.0	1.2	0.0	0.6			
Canyon Creek	10R3	7500	4/1	0	0.0	2.3	0.0	1.2			

NS - No Survey

*On adjacent drainage

COLORADO RIVER SNOW SURVEYS

April 1, 1955

Drainage Basin and Snow Course	Number	Elev.	Date of Survey	Snow Course Measurements					Years of Record	
				1955		Past Record				
				Snow Depth (In.)	Water Content (In.)	Water Content (In.)	1954	1953		
GREEN RIVER IN UTAH										
Hewinta R.S.	10J4	9500	4/1	36	8.3	NS	10.0	9.6	24	
Hole-in-Rock	10J3	9150	3/29	12	3.2	6.2	5.5	5.7	22	
King's Cabin (U)	9J1	8800	4/5	37	10.4	13.5	8.0	10.3	19	
King's Cabin (L)	9J2	8600	4/5	29	7.9	10.7	5.3	9.4	16	
DUCHESE RIVER										
Lake Fork Mt.	10J10	10500	4/1	48	13.8	12.4	9.3	10.7	24	
Paradise Park	9J3	10500	4/4	46	13.4	15.6	8.3	12.3	23	
Mosby Mt. (L)	9J5	9500	4/4	42	11.7	13.1	5.9	10.9	25	
Brown Duck Lake	10J9	10300	---	--	--	16.1	14.2	16.7	13	
Indian Canyon	10K1	9100	3/31	37	11.0	11.2	5.3	10.4	25	
PRICE RIVER										
Indian Canyon	10K1	9100	3/31	37	11.0	11.2	5.3	10.4	25	
Gooseberry Res.	11K4	8700	3/31	50	15.9	14.7	17.4	19.4	27	
Staley Ranch	11K7	7600	3/31	20	5.7	0.0	0.0	6.3	19	
Dry Valley Divide	11K8	7800	3/31	20	6.1	9.1	6.5	10.8	20	
Hntngtn-Horseshoe	11K5	9800	3/31	54	18.2	19.2	20.8	24.8	25	
Mud Creek	11K6	8600	3/31	40	13.7	14.3	18.8	20.6	6	
SANRAFAEL RIVER										
Hntngtn-Horseshoe	11K5	9800	3/31	54	18.2	19.2	20.8	24.9	25	
Seeley Creek R.S.	11K9	10000	4/1	35	11.3	14.3	10.1	15.4	25	
VIRGIN RIVER										
Long Valley Jnt.	12M6	7500	3/30	0	0.0	3.9	0.0	5.4	18	
Harris Flat R.S.	12M5	7700	3/30	23	8.5	10.8	1.4	9.7	24	
Duck Creek R.S.	12M4	8560	3/30	33	11.5	17.1	6.4	16.9	20	
Cedar Breaks	12M1	10200	3/24	57	20.4	25.6	15.0	25.2	20	
Webster Flats	12M3	9200	3/24	42	14.7	21.4	7.0	17.5	28	
Pine Valley	13M1	9150	3/25	39	14.8	18.4	7.8	19.2	18	
COLORADO R. (S.E. UTAH)										
LaSal Mt.	9L1	8800	3/24	33	10.0	7.4	9.3	9.4	24	
Buckboard Flat	9M1	9000	3/19	46	14.0	12.4	10.5	13.9	25	

NS - No Survey

LIST AND LOCATION OF SNOW COURSES (CONTINUED)

No.	Name	Sec.	Twp.	Rge.	Elev.	No.	Name	Sec.	Twp.	Rge.	Elev.
<u>Dolores</u>											
23 C	Rico	11	39N	11W	8700	7 A	Arizona (Williams)				
24 C	Telluride	6	42N	8W	8600	15 A	Iron Springs	22	14N	3W	6000
25 C	Lizard Head	24	41N	10W	10300		Willow Ranch	16	21N	11W	5000
114 C	Trout Lake	8	41N	9W	9700						
<u>Green</u>											
23 W	Dutch Joe	33	31N	104W	8700	9 A	Arizona (Lower Colorado)				
24 W	Mulligan Park	17	35N	108W	8900	10 A	Chalender	27	22N	3E	7100
25 W	Kendall R. S.	23	38N	110W	7900	11 A	Grand Canyon	21	30N	4E	7500
26 W	Loomis Park	14	37W	111W	8500	26 C	Bright Angel	34	33N	4E	8400
27 W	Snyder Basin	15	29N	114W	8040	27 C	Rio Grande				
28 W	Piney La Barge	19	29N	114W	8820	28 C	Wolf Creek	4	37N	2E	10000
						29 C	Upper Rio Grande	13	40N	4W	9350
						30 C	Silver Lakes	15	36N	5E	9600
						31 C	River Springs	25	33N	6E	9800
						32 C	Summitville	30	37N	4E	11500
						33 C	Cumbres Pass	17	32N	5E	10000
11 NM	Frisco Divide	21	6S	20W	8000	34 C	Santa Maria	8	41N	2W	9700
14 NM	State Line	5	6S	21W	8000	35 C	Culebra				
22 NM	Taylor Creek	20	10S	10W	7850	36 C	Fort Garland	13	29N	72W	8200
23 NM	Inman	6	11S	10W	7800	37 C	Platoro	22	36N	4W	9950
1 A	Nutrioso	23	6N	30E	8500	38 C	West Conejos	25	35N	4E	9450
2 A	Beaver Head	13	4N	30E	8000	39 C	La-Manga	11	33N	5E	10000
3 A	Coronado Trail	26	5N	30E	8000	40 C	Pyramid	26	41N	5W	10300
29 A	Rose Canyon	15	12S	16E	7300	41 C	Spring Creek Pass	2	42N	3W	10900
30 A	Bear Wallow	6	12S	16E	8100	42 C	Pool Table Mt.	19	41N	2E	10000
						43 C	Lake Humphrey	32	40N	1E	9300
<u>Arizona (Salt)</u>											
4 A	McNary	14	8N	23E	7200	44 C	Cochetopa Pass	12	45N	3E	10000
5 A	Forest Dale	2	9N	21E	6000	45 C	Porcupine	2	41N	3W	10400
6 A	Milk Ranch	28	8N	23E	7000	46 C	Wolf Creek Summit	6	37N	2E	11000
20 A	Pacheta				7800						
21 A	Fort Apache	18	7N	27E	9000	1 NM	Red River	29	28N	15E	9500
22 A	Baldy	28	7N	27E	9000	2 NM	Taos Canyon	10	25N	15E	9000
23 A	Maverick Fork	13	6N	27E	9050	3 NM	Aspen Grove	12	18N	10E	9100
31 A	Workman Creek	33	6N	14E	5860	4 NM	Hematite Park	8	28N	15E	9500
						5 NM	Tres Ritos	23	22N	13E	9000
						6 NM	Payrole	16	28N	7E	9700
<u>Arizona (Little Colorado)</u>											
12 A	Fort Valley	22	22N	6E	7350	7 NM	Chama Divide				
13 A	Mormon Lake	13	18N	8E	7350	8 NM	Chamita				
19 A	Mormon Mountain	14	18N	8E	7500	9 NM	Cordova	22	22N	13E	10100
						10 NM	Panohuela	27	19N	12E	8300
						11 NM	Big Tesuque	17	18N	11E	10000
<u>Arizona (Verde)</u>											
8 A	Camp Wood	3	16N	6W	5700	12 NM	Elk Cabin	8	18N	11E	8250
16 A	Antelope Park	29	19N	8E	7300	13 NM	Rio En Medio	8	18N	11E	10400
17 A	Casner Park	19	18N	8E	6930	14 NM	Quemazon	34	20N	5E	9300
18 A	Munds Park	7	18N	7E	6500	15 NM	Bateman	5	26N	6E	9300
						16 NM	Fenton Hill	18	19N	3W	8900

SD - South Dakota; C - Colorado; W - Wyoming; A - Arizona; NM - New Mexico

Federal - State - Private
COOPERATIVE SNOW SURVEYS

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Furnishes the basic data
necessary for forecasting
water supply for irrigation,
domestic and municipal water
supply, hydro-electric power
generation, navigation,
mining and industry

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“WATER IS THE WEST'S GREATEST RESOURCE”